

Notice of Allowability

Application No.

10/707,938

Applicant(s)

FEATHER, KEITH FREDERICK

Examiner

Brenda A Lamb

Art Unit

1734

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Interview Summary of 8/19/04.
2. ☒ The allowed claim(s) is/are 1-11 renumbered as claims 1-2,6-11 and 3-5.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☒ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☒ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☒ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 8/19/2004.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
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DATE MAILED:

NOTICE OF INFORMAL APPLICATION

(Attachment to Office Action)

This application does not conform with the rules governing applications for the reason(s) checked below. The period within which to correct these requirements and avoid abandonment is set in the accompanying Office action.

- A. A new oath or declaration, identifying this application by the serial number and filing date is required. The oath or declaration does not comply with 37 CFR 1.63 in that it:
1. ☐ was not executed in accordance with either 37 CFR 1.66 or 1.68.
 2. ☐ does not identify the city and state or foreign country of residence of each inventor.
 3. ☐ does not identify the citizenship of each inventor.
 4. ☐ does not state whether the inventor is a sole or joint inventor.
 5. ☐ does not state that the person making the oath or declaration:
 - a. ☐ has reviewed and understands the contents of the specification, including the claims, as amended by any amendment specifically referred to in the oath or declaration.
 - b. ☐ believes the named inventor or inventors to be the original and first inventor or inventors of the subject matter which is claimed and for which a patent is sought.
 - c. ☐ acknowledges the duty to disclose information which is material to the examination of the application in accordance with 37 CFR 1.56(a).
 6. ☐ does not identify the foreign application for patent or inventor's certificate on which priority is claimed pursuant to 37 CFR 1.55, and any foreign application having a filing date before that of the application on which priority is claimed, by specifying the application serial number, country, day, month, and year of its filing.
 7. ☐ does not state that the person making the oath or declaration acknowledges the duty to disclose material information as defined in 37 CFR 1.56(a) which occurred between the filing date of the prior application and filing date of the continuation-in-part application which discloses and claims subject matter in addition to that disclosed in the prior application (37 CFR 1.63(d)).
 8. ☒ does not include the date of execution.
 9. ☒ does not use permanent ink, or its equivalent in quality, as required under 37 CFR 1.52(a) for the: ☒ signature ☐ oath/declaration.
 10. ☐ contains non-initialed alterations (See 37 CFR 1.52(c) and 1.56).
 11. ☐ does not contain the clause regarding "willful false statements..." as required by 37 CFR 1.68.
 12. ☐ Other:
- B. Applicant is required to provide:
1. ☐ A statement signed by applicant giving his or her complete name. A full name must include at least one given name without abbreviation as required by 37 CFR 1.41(a).
 2. ☐ Proof of authority of the legal representative under 37 CFR 1.44.
 3. ☐ An abstract in compliance with 37 CFR 1.72(b).
 4. ☐ A statement signed by applicant giving his or her complete post office address (37 CFR 1.33(a)).
 5. ☐ A copy of the specification written, typed, or printed in permanent ink, or its equivalent in quality as required by 37 CFR 1.52(a).
 6. ☒ Other: *A new oath/declaration with inventor's signature in permanent ink, or its equivalent in quality, as required under 37 CFR 1.52(a) along with date of execution of the oath/declaration.*

FORM PTO-152 (REV. 4-87)

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Inventor Keith Frederick Feather on 8/13/2004 and 8/19/2004. The application has been amended as follows:

delete lines 1-18 of claim 1 and insert -- In a manufacturing processes with a cylindrical coating chamber having wall with an interior facing surface defining an interior space and at least one inflatable seal positioned within the wall having a seal face arranged to face the interior space within the chamber, the inflatable seal being in direct or indirect contact with a coating solution applied to a substrate positioned within the chamber which can adhere to the inflatable seal, the improvement consists of an inflatable seal cleaning system which is comprised of:

- a. one or more spray nozzles mounted above the seal and chamber, the spray nozzles are positioned so as to direct water in a direction downwardly toward the seal in a fan pattern so as to impact the seal and a portion of the chamber above the seal with sufficient velocity to reflect the water to the opposite facing portion of the wall;
- b. a pulse pump controlled by a controller to deliver individual pulses of the water to the spray nozzles at a pressure of 20 to 125 psig;

c. one or more solenoid valves controlled by the controller to direct the pulses of water to select individual spray nozzles;

d. one or more mounting blocks for securing the position of the spray nozzle relative to the chamber and the seal, the spray nozzles are secured in the mounting blocks in such a way so as to direct the water spray downward toward the seal face at an angle of 15 to 45 degrees from horizontal; and

e. tubing to conduct the water from the pulse pump to the spray nozzles. --;

at line 2 of claim 2 after "honeycomb coating process" insert – and the substrate is a honeycomb substrate --;

at line 3 of claim 3 before "spray angle" insert – fan --;

at line 2 of claim 4 after "device" delete "> <emphasis></emphasis>water spray pressure" and insert – in claim 1, wherein the pressure of the water delivered to the spray nozzles is 40 psig. --; delete line 2 of claim 4.

at line 1 of claim 5 after "in claim 1" delete "where the spray angle from the" and insert --, wherein the water spray is directed downwardly toward the seal face at an angle of 30 degrees from horizontal. --; delete lines 2-3 of claim 5;

at line 6 of claim 6 after "in claim 1," delete "where the mounting blocks are in-" and insert – wherein the mounting blocks are attached to the interior surface of the coating chamber. --; delete lines 2-3 of claim 6;

at line 1 of claim 7 delete "where the pump is replaced with a" and insert – wherein the tubing is rigid or semi-rigid. --; delete line 2 of claim 7.

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at line 2 of claim 8 before "nozzles" insert – spray --; at line 2 of claim 8 delete "from one" and insert – up --;

at line 1 of claim 9 after "device in claim 2, where the spray" delete "system is" and insert – nozzles are --;

at line 1 of claim 10 after "device in claim 2, where the spray" delete "system is" and insert – nozzles are --;

at line 1 of claim 11 after "device in claim 2, where the spray" delete "system is" and insert – nozzles are --;

delete claim 12.

In the specification has been amended as follows:

at line 2 of page 7 after "one of the solenoid valves (7)" insert --, which may include up to eight solenoid valves, --; at line 5 of page 7 after "of the spray nozzle (1)" insert --, which may include up to eight spray nozzles --; at line 6 of page 7 before "semi-rigid pipe" insert – rigid or --; at page 5 at line 3 after "40 psig," insert – which may range from 20 psig to 125 psig, --; at page 5 at line 5 after "from horizontal" insert --, which may range from 15 to 45 degrees from horizontal, --; at page 5 at line 5 after "170 degree horizontal flat fan" insert -- , which may range from 80 to 180 degrees, --.

The examiner has amended claims 2-11 to correct obvious typographical errors:

at line 1 of claims 2-11 after "The" delete "device" and insert – system --; at line 2 of claim 2 before "catalytic converter honeycomb coating process" delete "the" and insert -- a --.

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The examiner has amended the specification to set forth continuation data:
before line 1 of page 1 of the specification insert – This application claims priority under
35 U.S.C. 119(e) to U.S. Provisional Application No. 60/504,549 filed 9/22/2003. --.

Any inquiry concerning this communication should be directed to Brenda A Lamb
at telephone number (571) 272-1231. The examiner can normally be reached on
Monday thru Tuesday and Thursday thru Friday with alternate Wednesdays off.



Brenda A Lamb
Examiner
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